

RIDING TROWEL

MP235



PARTS & DECALS MANUAL

Manual Part #: 075765P | Revision: A
Language: English | Original Instructions



NOTICE

This manual, or a copy of it, must be kept with the machine at all times.
There is a manual storage container located on the machine for your convenience.

RIDING TROWEL

PARTS & DECALS MANUAL

This manual covers the Riding Trowel model listed below:

<u>Part No.</u>	<u>Description</u>
073900	RIDER, MP235X

For more information regarding the following, please see “MP235X Safety & Operations Manual”

- Warranty information
- Dealer information
- How to identify the model/serial numbers on the machine
- Technical specifications

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SECTION 1: PARTS

SECTION 1 PARTS

Factory Service Information

This section contains illustrated drawings and parts list for help in identifying and/or ordering replacement parts for your machine. Follow the instructions in the Replacement Parts Procedure section of this manual when ordering replacement parts to insure prompt and accurate delivery.

The Right Hand (RH) and/or Left Hand (LH) orientations are defined from the operator's point of view while sitting on the machine (SOM).

NOTE

All set screws have blue (LOC-TITE™) applied at the factory. If set screw is removed or loosened for any reason re-apply blue (LOC-TITE™).

NOTE

All grease fittings are capped with CAP PLUG GC-5 (AEC PN 015692) to protect the fitting. If cap becomes missing or damaged replace it as soon as possible.

NOTE

Anti-Seize is applied at the factory to all drive line coupling, gear box main and counter shafts and pitch control threaded rod assemblies. If these parts are disassembled re-apply a light coat of a graphite based anti-seize.

We recommend AEC quality replacement parts, these are available from the AEC Customer Service Department or your nearest AEC Dealer.

Part numbers are subject to change without notice. Part numbers might be different outside of the United States of America. Use part numbers listed in the applicable parts list table when you place your order. If a part number changes, the AEC Customer Service Department or your nearest AEC dealer will have the latest part number for the replacement part.

Remember when you order replacement parts, you will need your model number and serial number. These are the numbers that you have recorded in the UNIT ID section of the Safety and Operations manual. Please order replacement parts by the appropriate part number, not the key number.

This manual contains an illustrated parts list for help in ordering replacement parts for your machine. Follow the instructions below when ordering parts to insure prompt and accurate delivery:

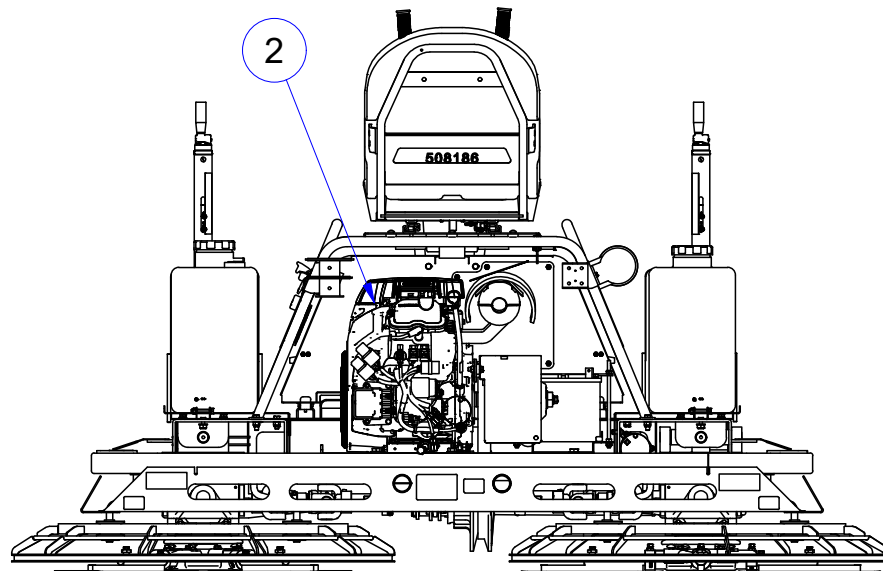
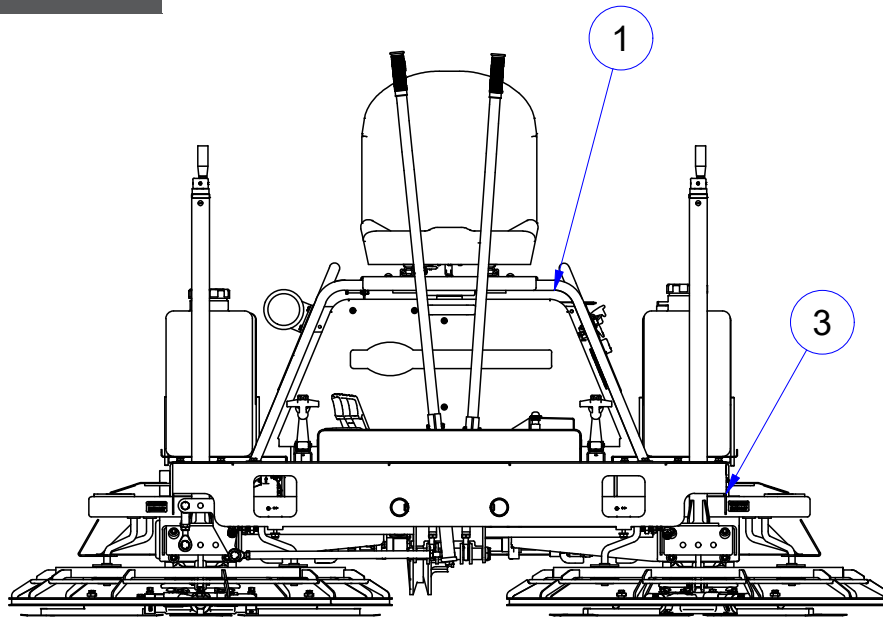
1. All orders for service parts must include the serial number for the machine. Shipment will be delayed if this information is not available.
2. Include the correct description and part number from Parts Section 1.
3. Specify exact shipping instructions, including the preferred routing and complete destination address
4. DO NOT return parts to AEC without receiving written authorization from AEC. All authorized returns must be shipped pre-paid.
5. When placing an order please contact the AEC dealer nearest to you.



All information, specifications, and illustrations in this manual are subject to change without notice and are based on the latest information at the time of publication.

SECTION 1 PARTS

General Arrangement

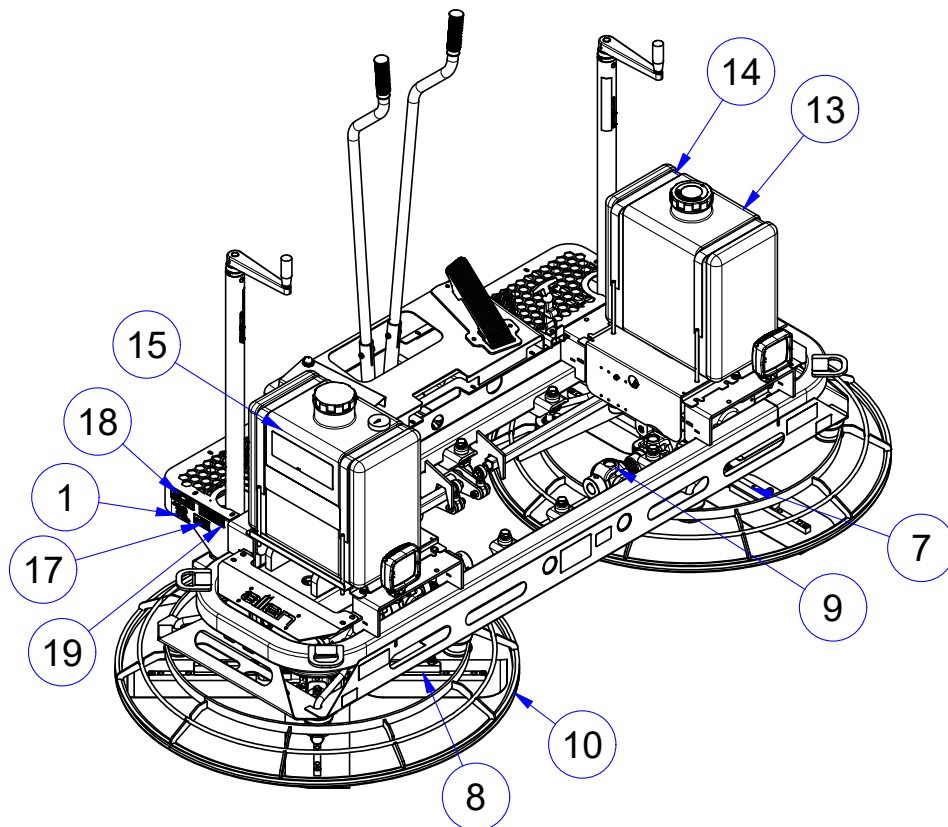
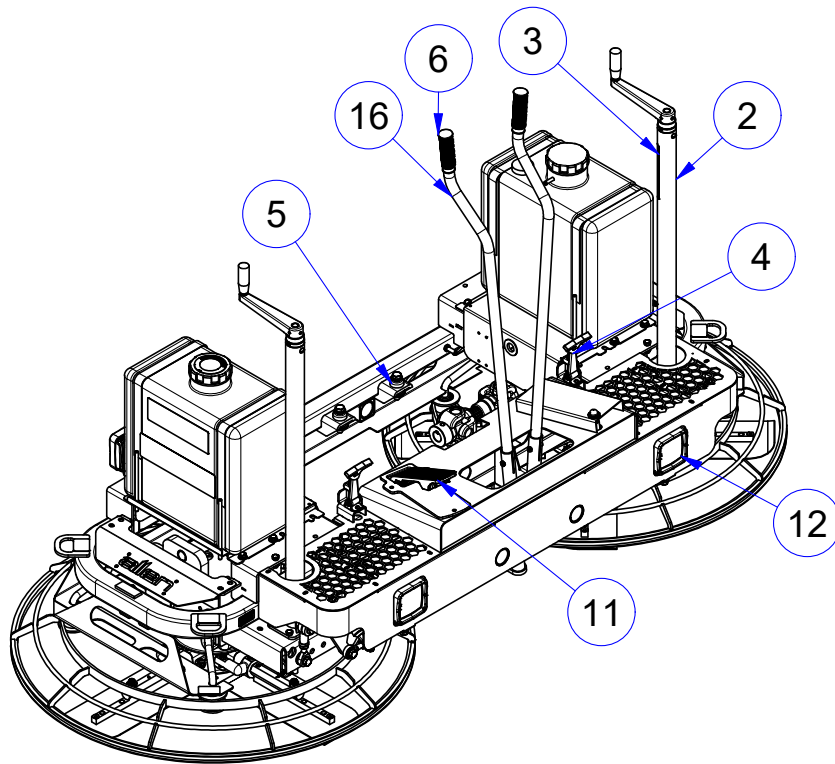


ITEM	PART #	DESCRIPTION	QTY
1	073462	ASSEMBLY, SEAT FRAME	1
2	073470	ASSEMBLY, POWER UNIT FRAME	1
3	073990	ASSEMBLY, MAIN FRAME	1

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SECTION 1 PARTS

Main Frame Assembly



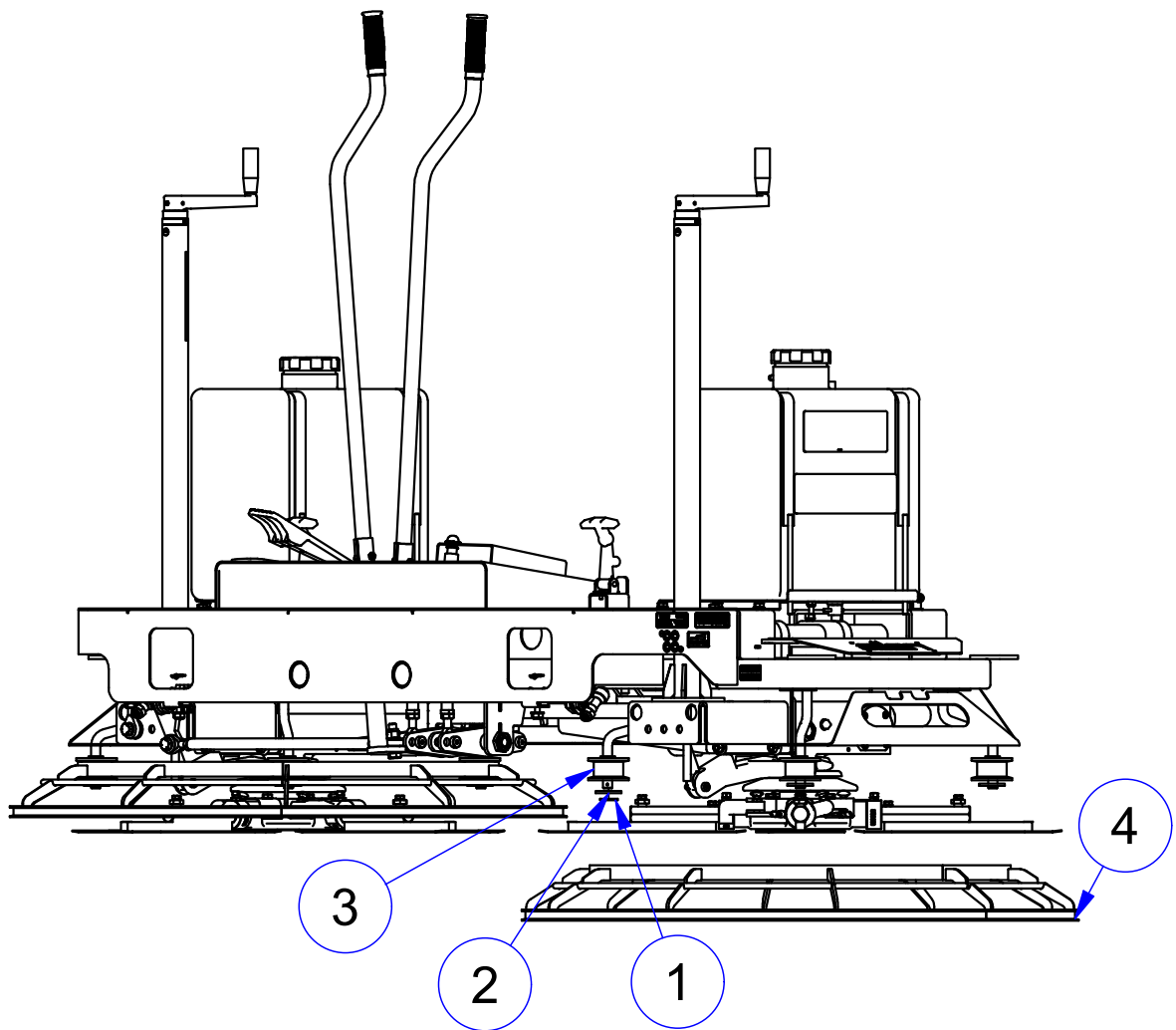
Main Frame Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010513	FITTING, STR GREASE 1/4"-28	4
2	032370	ASSEMBLY, PITCH CONTROL	2
3	032377	DECAL, PITCH CONTROL TUBE	2
4	042260	LATCH FLEX DRAW	2
5	046744	MOUNT, ISOLATOR	6
6	048354	HANDLE GRIP	2
7	053162	ASSEMBLY, RIGHT HAND ROTOR	1
8	053164	ASSEMBLY, LEFT HAND ROTOR	1
9	053172	U-JOINT	2
10	061078	WELDMENT, EDGER LOWER RING	2
11	063341	FOOT PEDAL ELECTRONIC	1
12	069835	LIGHT, LED 1200 LIMENS	4
13	071536	TANK, 7 GALLON RETARDANT	1
14	071568	TANK STRAP HOLD DOWN	4
15	072854	TANK, 7 GALLON FUEL	1
16	073905	STEERING JOYSTICK	2
17	074086	DECAL, GREASE PORT	1
18	074087	DECAL, DRIVELINE BEARING GREASE & GEARBOX	1
19	074284	DECAL, GREASING OF U-JOINTS	1

SECTION 1 PARTS

Roller Assembly



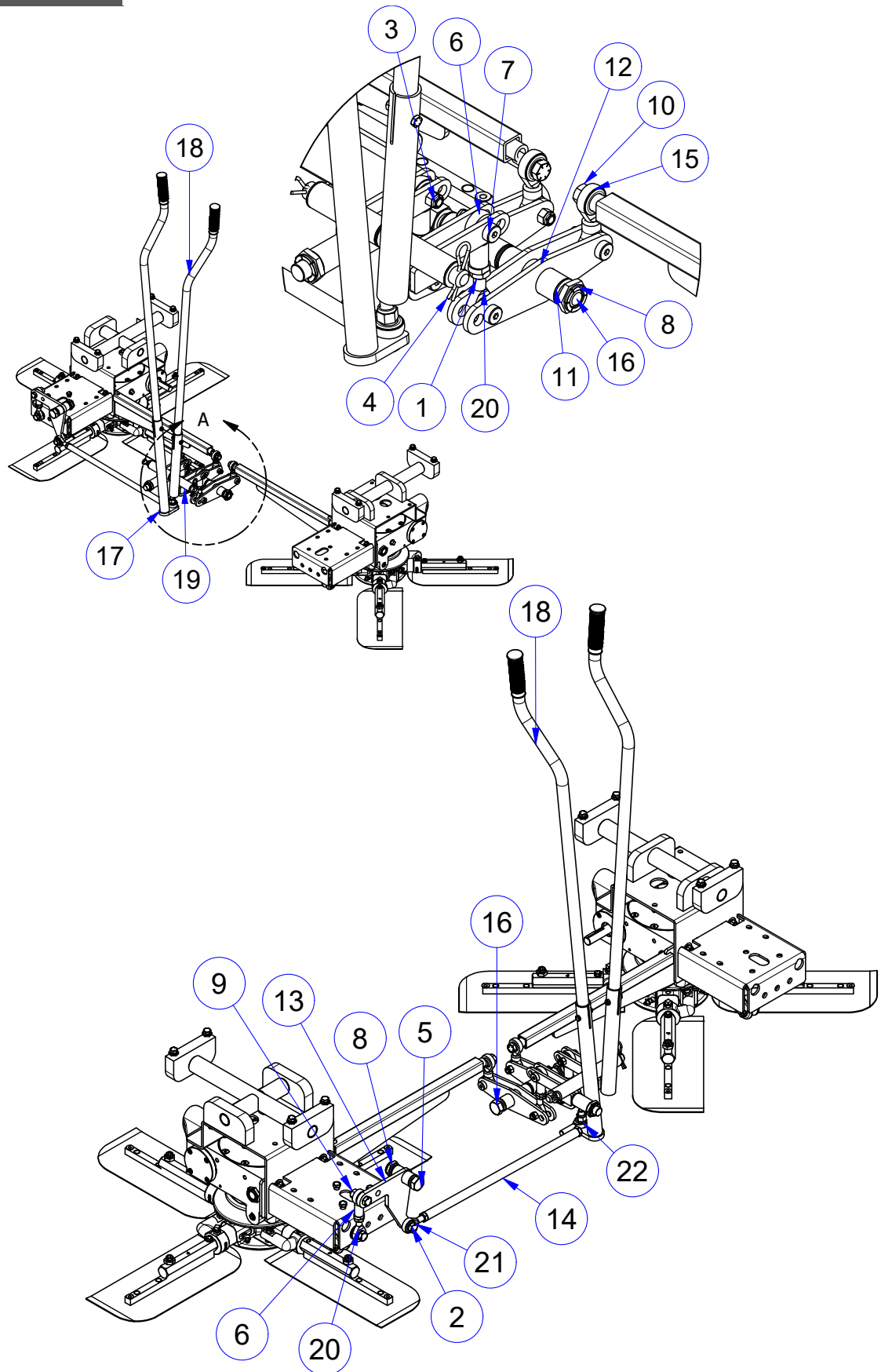
Roller Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	012361	FASTENER, COTTER PIN 1/8" X 1"	8
2	012982	FASTENER, FLAT WASHER 5/8"	8
3	037264	ASSEMBLY, ROLLER	8
4	061078	WELDMENT, EDGER RING	2

SECTION 1 PARTS

Steering System



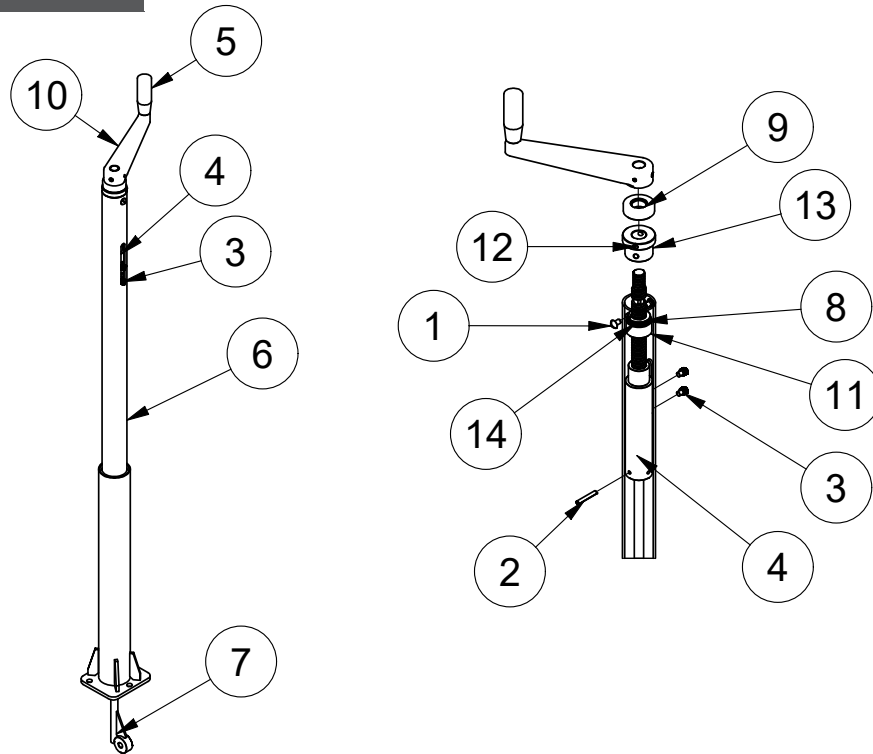
Steering System Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010051	FASTENER, HEX JAM NUT 1/2"-20	4
2	010069	FASTENER, HHCS 1/2"-13 X 1-1/2" GRADE 8	3
3	010464	FASTENER, NUT NYLOCK 3/8"-16 GRADE 8	13
4	010711	CLIP, HITCH PIN 0.125" X 2-9/16"	2
5	016510	FASTENER, HHCS 3/4"-10 X 3" GRADE 8	1
6	019900	ROD END, FEMALE 1/2"	3
7	026267	FASTENER, LG SHLDR 3/8"-16 X DIA. 1/2" X 1"	4
8	026447	FASTENER, THIN NYLOCK NUT 3/4"-10	3
9	040208	FASTENER, STOVER NUT 1/2"-13	9
10	047480	FASTENER, HHCS 1/2"-20 X 1-1/4" GRADE 8	2
11	048929	BEARING, 3/4"	10
12	053120	WELDMENT, LEVER ARM FOR STEERING	2
13	053124	STEERING FULCRUM	1
14	053174	SHAFT, TIE ROD 17-1/2"	1
15	053183	STEERING LINK	2
16	056636	FASTENER, HHCS 3/4"-10 X 7-1/2" GRADE 8	1
17	073903	WELDMENT, STEERING TUBE RIGHT HAND	1
18	073905	STEERING JOYSTICK	2
19	073906	WELDMENT, STEERING TUBE LEFT HAND	1
20	221408	ROD END MALE 1/2"	3
21	221408	ROD END MALE 1/2"	1
22	221408	ROD END MALE 1/2"	1

SECTION 1 PARTS

Pitch Control Assembly



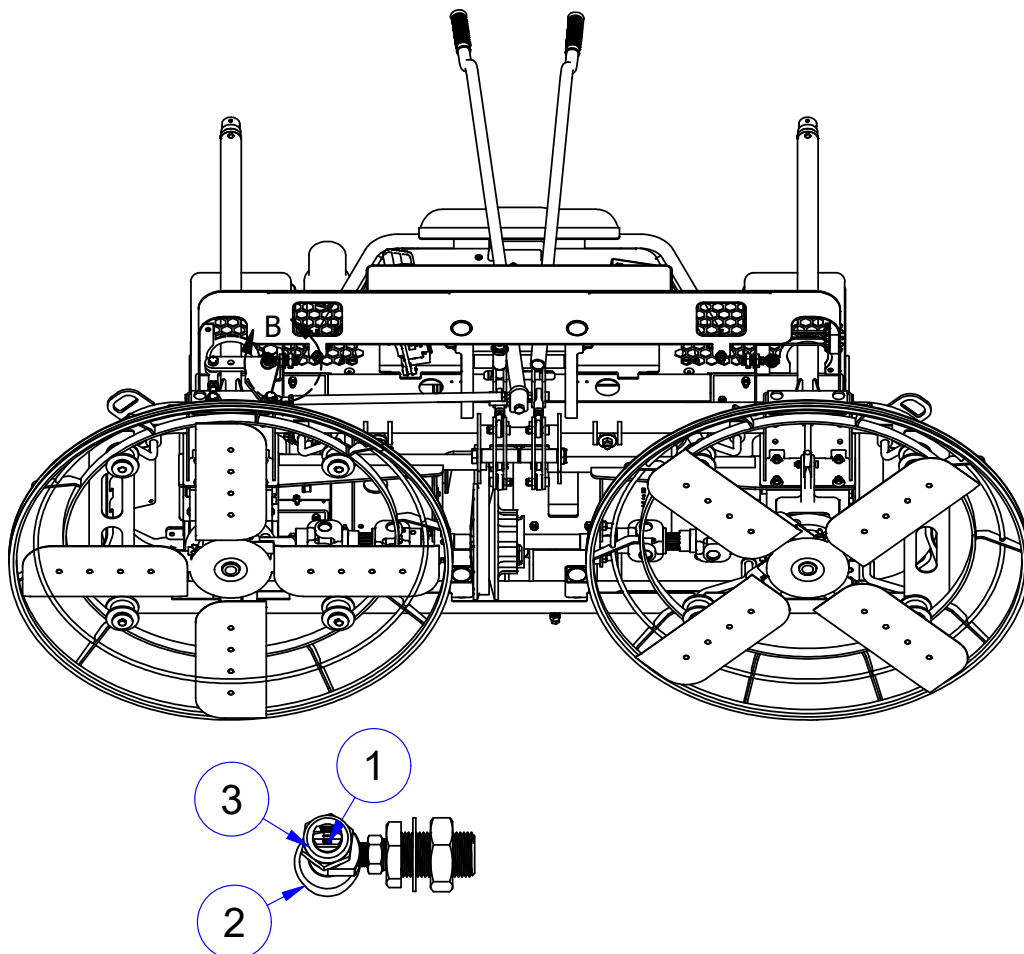
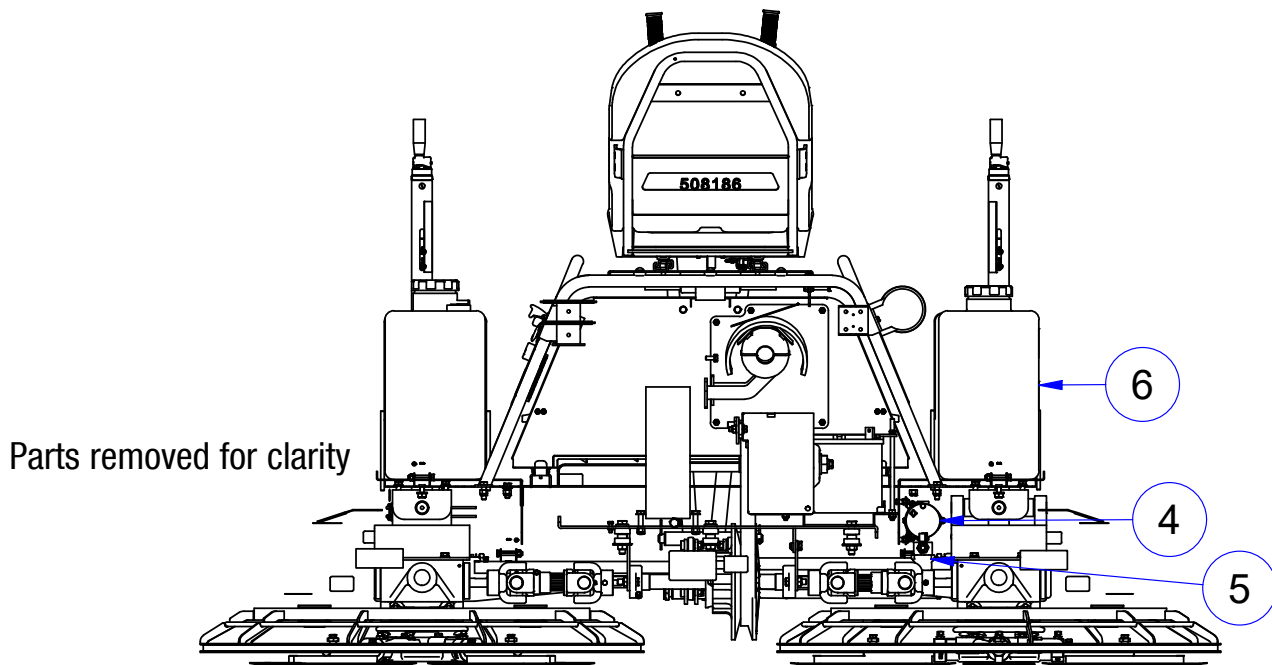
ITEM	PART #	DESCRIPTION	QTY
1	015410	FASTENER, RHMS 1/4"-20 X 3/8"	4
2	015747	PIN, ROLL 3/16" X 1-3/8" SPIROL	2
3	015768	FASTENER, SHCS 1/4"-20 X 1/4"	4
4	029812	BUSHING, SLIDE PITCH CONTROL	2
5	032115	KNOB, PITCH CONTROL HANDLE	2
6	026420	WELDMENT, PITCH CONTROL TUBE	2
7	029822	WELDMENT, PITCH CONTROL SHAFT	2
8	012710	THRUST BEARING RACE	4
9	015742	THRUST BEARING	2
10	061529	ASSEMBLY, CRANK HANDLE AND SCREW SHAFT	2
11	032191	STOPPER FOR PITCH CONTROL	2
12	036797	FASTENER, BALL PLUNGER 1/4"-20	4
13	036914	BUSHING	2
14	100340	THRUST BEARING	2

***NOTE:** Part quantities referenced in this table represent quantity needed **PER MACHINE**.

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SECTION 1 PARTS

Spray System



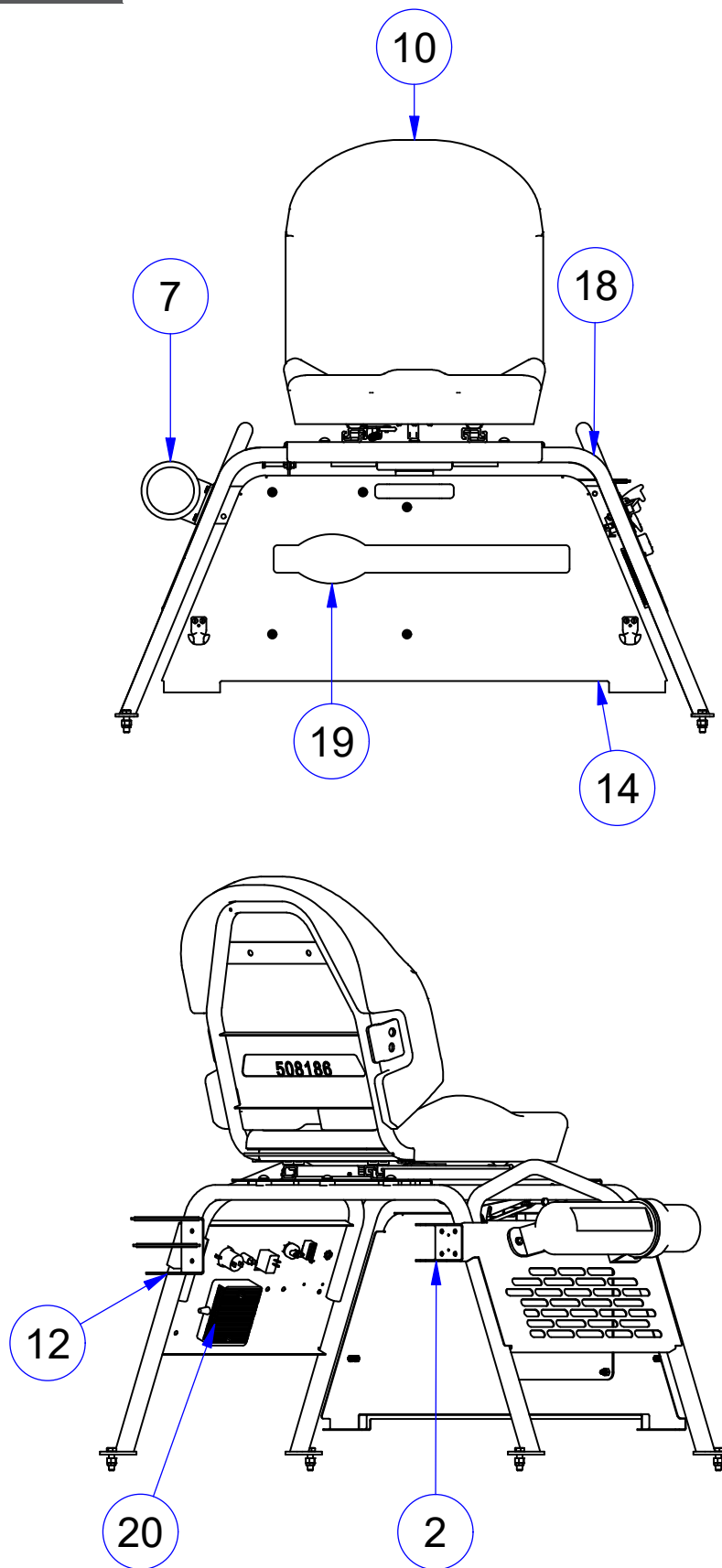
Spray System Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
-	074398	KIT, HYDRAULIC SPRAY AND LUBRICATION	1
1	012702	SPRAY TIP	2
2	012704	SPRAY NOZZLE	2
3	012705	NOZZLE NUT	2
4	033735	PUMP, SPRAY SYSTEM	1
5	040209	FILTER FOR SPRAY SYSTEM	1
6	071536	TANK, 7 GALLON RETARDANT	1

SECTION 1 PARTS

Seat Frame Assembly



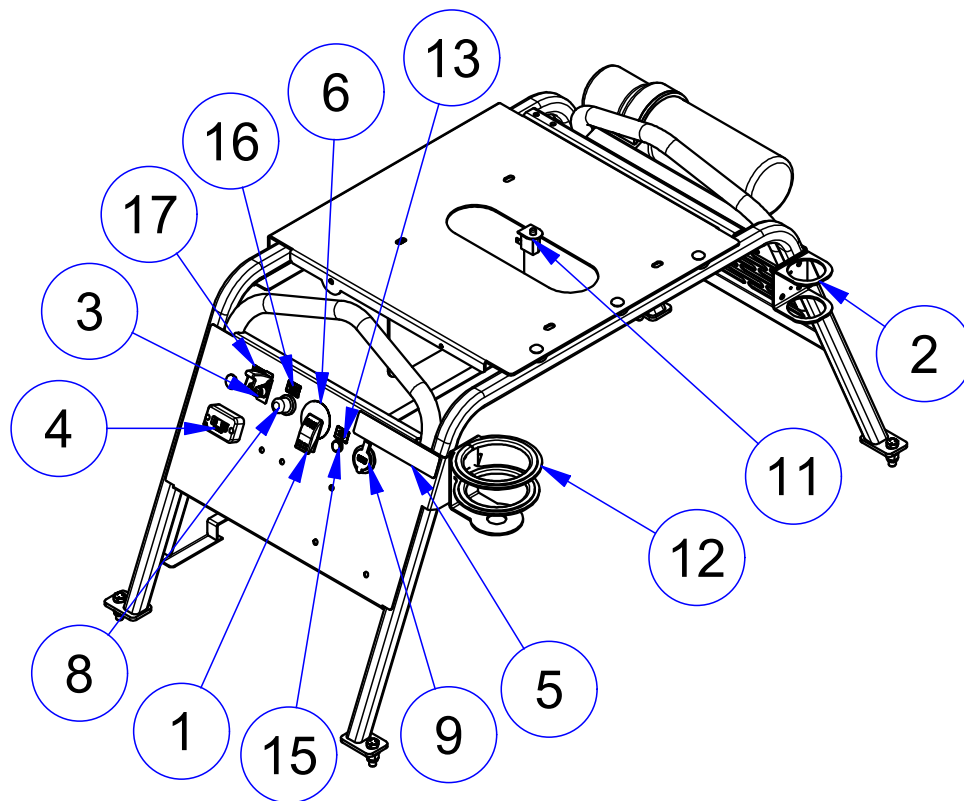
Seat Frame Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	032125	ROCKER SWITCH FOR LIGHTS	1
2	049632	TOOL HOLDER BRACKET	1
3	050603	TOGGLE SWITCH, ON/OFF	1
4	064386	HOUR METER	1
5	065915	DECAL, PPE	1
6	065918	DECAL, LIGHTS	1
7	066255	MANUAL TUBE	1
8	068956	SWITCH, PUSH TO START	1
9	069850	USB RECEPTICAL	1
10	069874	SEAT	1
11	071032	SEAT KILL SWITCH	1
12	071120	METAL CUP HOLDER	1
-	071123	TRIM CUT FOR TOP SECTION OF CUP HOLDER	1
-	071124	TRIM CUT FOR MIDDLE SECTION OF CUP HOLDER	1
13	072966	DECAL, CHECK ENGINE LIGHT	1
14	073481	ASSEMBLY, FRONT PANEL	1
15	073948	LIGHT, RED LED	1
16	074011	DECAL, PUSH TO START	1
17	074012	DECAL, ENGINE ON/OFF	1
18	074332	WELDMENT, SEAT FRAME	1
19	075441	DECAL, FRONT SCREEN MP235	1
20	-	HONDA EFI CONTROL MODULE (COMES WITH ENGINE)	1

SECTION 1 PARTS

Seat Frame Assembly Continued



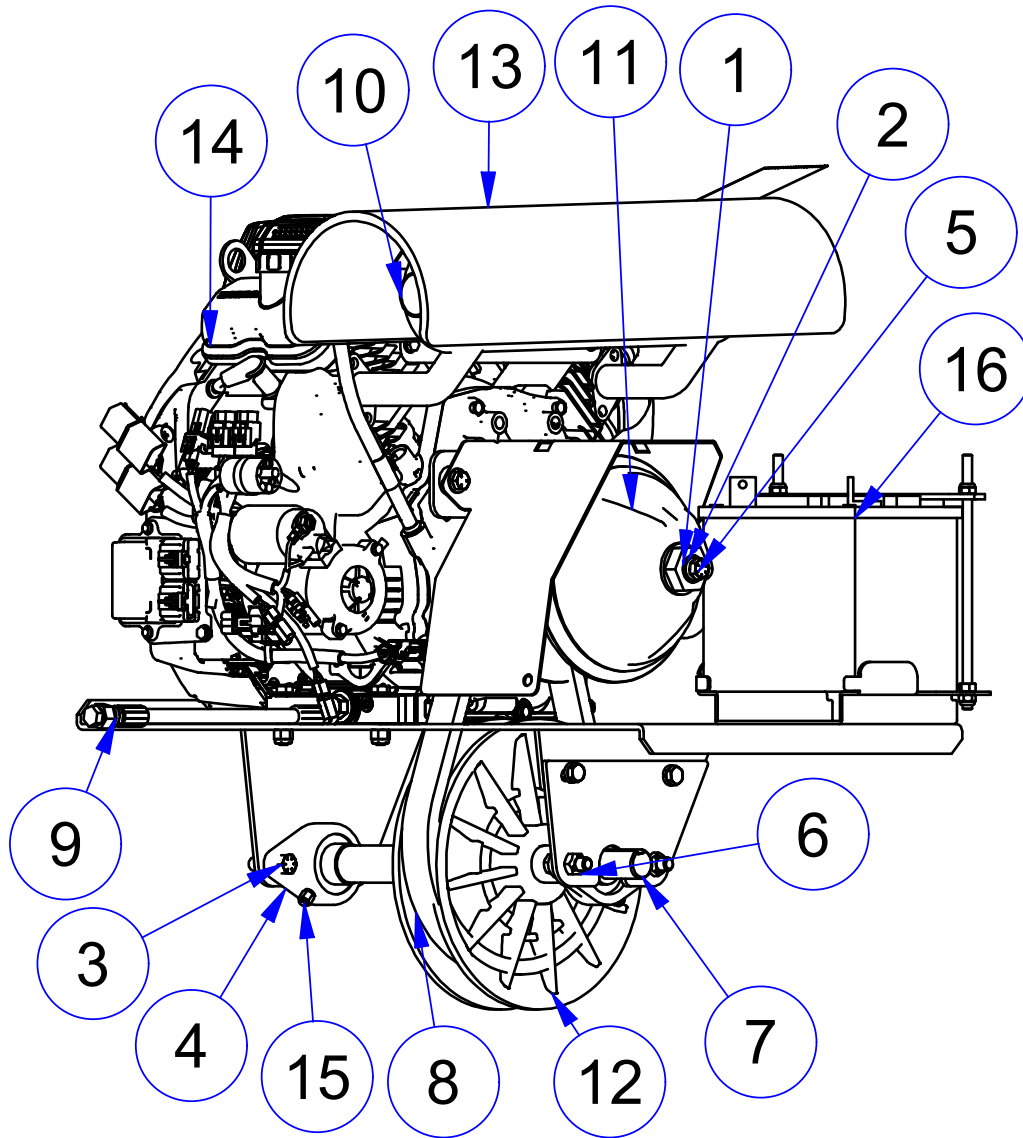
Seat Frame Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	032125	ROCKER SWITCH FOR LIGHTS	1
2	049632	TOOL HOLDER BRACKET	1
3	050603	TOGGLE SWITCH, ON/OFF	1
4	064386	HOUR METER	1
5	065915	DECAL, PPE	1
6	065918	DECAL, LIGHTS	1
7	066255	MANUAL TUBE	1
8	068956	SWITCH, PUSH TO START	1
9	069850	USB RECEPTICAL	1
10	069874	SEAT	1
11	071032	SEAT KILL SWITCH	1
12	071120	METAL CUP HOLDER	1
-	071123	TRIM CUT FOR TOP SECTION OF CUP HOLDER	1
-	071124	TRIM CUT FOR MIDDLE SECTION OF CUP HOLDER	1
13	072966	DECAL, CHECK ENGINE LIGHT	1
14	073481	ASSEMBLY, FRONT PANEL	1
15	073948	LIGHT, RED LED	1
16	074011	DECAL, PUSH TO START	1
17	074012	DECAL, ENGINE ON/OFF	1
18	074332	WELDMENT, SEAT FRAME	1
19	075441	DECAL, FRONT SCREEN MP235	1
20	-	HONDA EFI CONTROL MODULE (COMES WITH ENGINE)	1

SECTION 1 PARTS

Power Unit Assembly



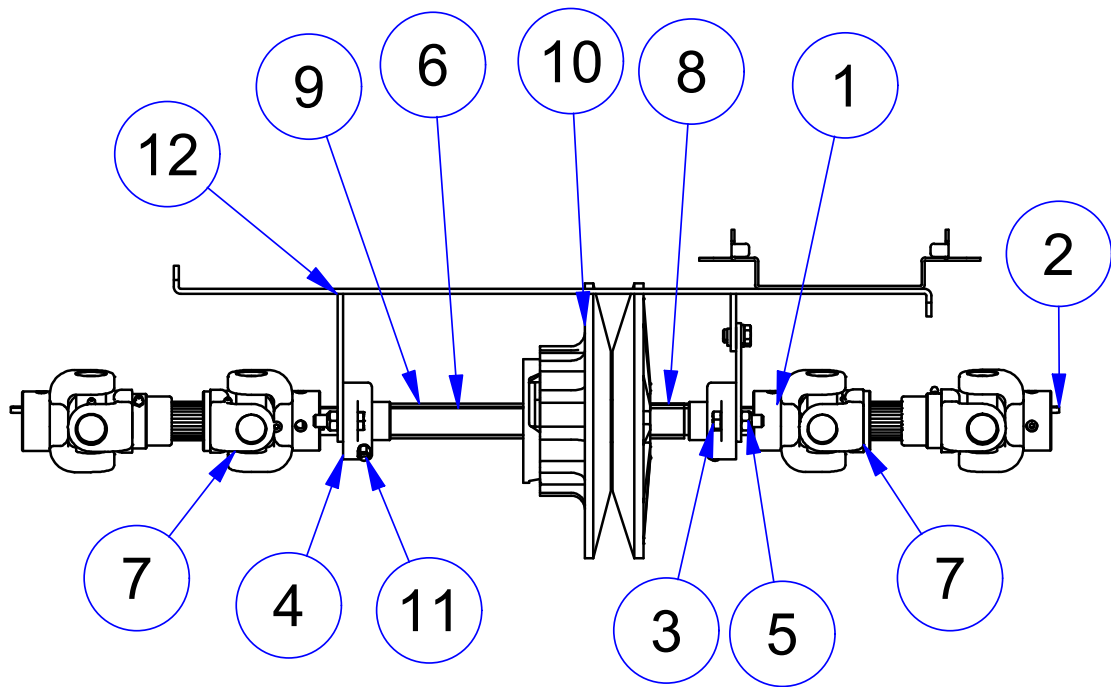
Power Unit Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010096	FASTENER, FLAT WASHER 7/16"	1
2	010092	FASTENER, LOCK WASHER 7/16"	1
3	017898	FASTENER, HHCS 7/16"-20 X 1-1/2"	4
4	039136	1" FLANGED TWO BOLT BEARING	2
5	042280	FASTENER, HHCS 7/16"-20 X 4-1/2"	1
6	047477	FASTENER, STOVER NUT 7/16"-20	4
7	050070	DRIVE SHAFT, 17-1/2"	1
8	051332	BELT	1
9	051980	HOSE DRAIN	1
10	051981	MUFFLER	1
11	053327	DRIVER PULLEY, CLUTCH	1
-	053210	KEY FOR DRIVER PULLEY, 3/16" X 1/4" X 2"	1
12	053389	DRIVEN PULLEY	1
13	056938	HEAT WRAP 14" X 20"	1
14	073485	ENGINE, IGX700	1
15	073817	FITTING, STRAIGHT PUSH IN 4MM TUBING 1/8" NTP	2
16	BT0100	BATTERY	1

SECTION 1 PARTS

Driveline Assembly



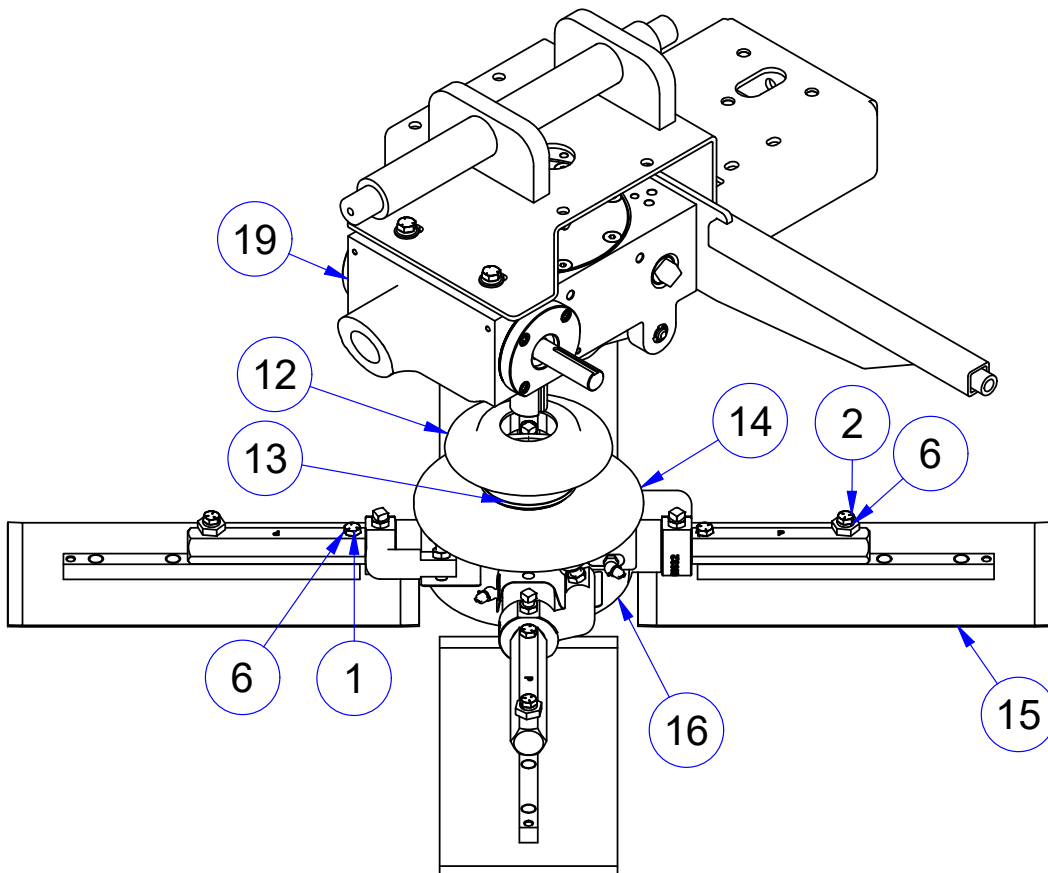
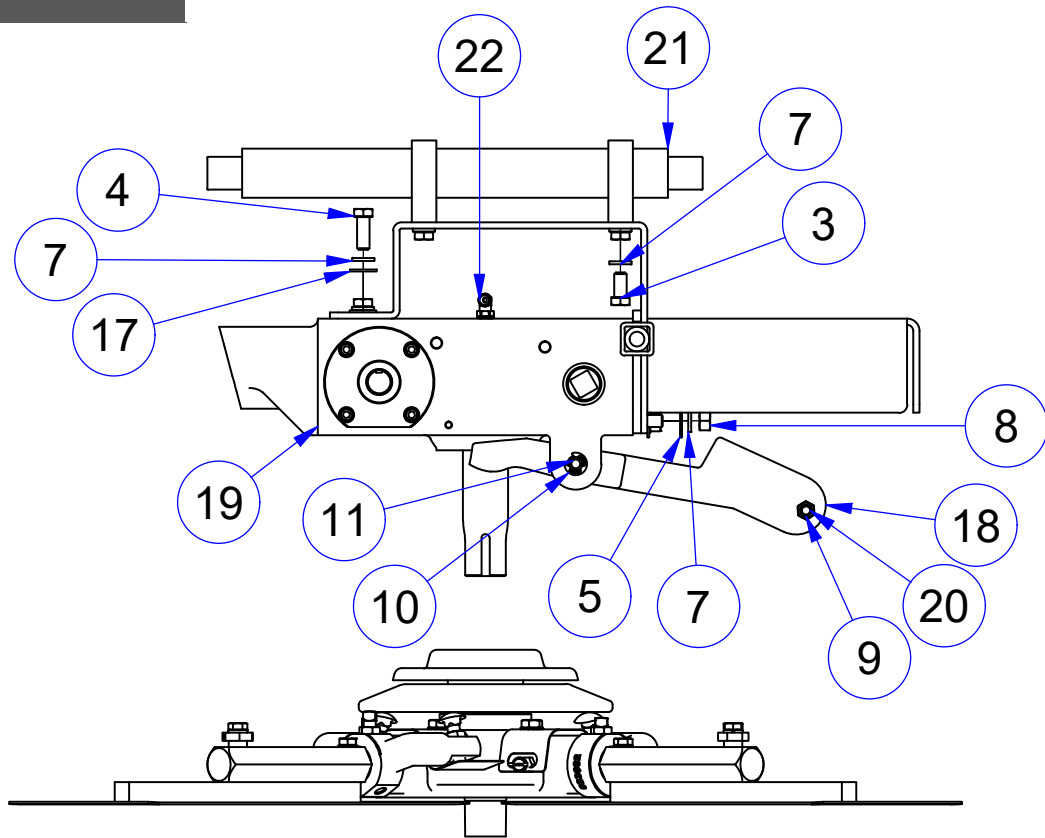
Driveline Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	011791	KEY, 1/4" SQ X 1"	2
2	015813	KEY, 3/16" SQ X 1" RADI ENDS	2
-	024820	KEY FOR DRIVEN PULLEY, 1/4" SQ X 4"	2
3	017989	FASTENER, HHCS 7/16"-20 X 1-1/2"	4
4	039136	1" FLANGED TWO BOLT BEARING	2
5	047477	STOVER NUT, 7/16"-20	4
6	050070	DRIVE SHAFT 17-1/2"	1
7	053172	ASSEMBLY, U-JOINT	2
8	053193	SPACER BEARING 1-3/8"	1
9	053194	SPACER BEARING 4-3/4"	1
10	053389	DRIVEN PULLEY	1
11	073817	FITTING, STRAIGHT PUSH IN 4MM TUBING 1/8" NTP	2
12	074302	WELDMENT, ENGINE PLATE	1

SECTION 1 PARTS

Left Hand Rotor Assembly



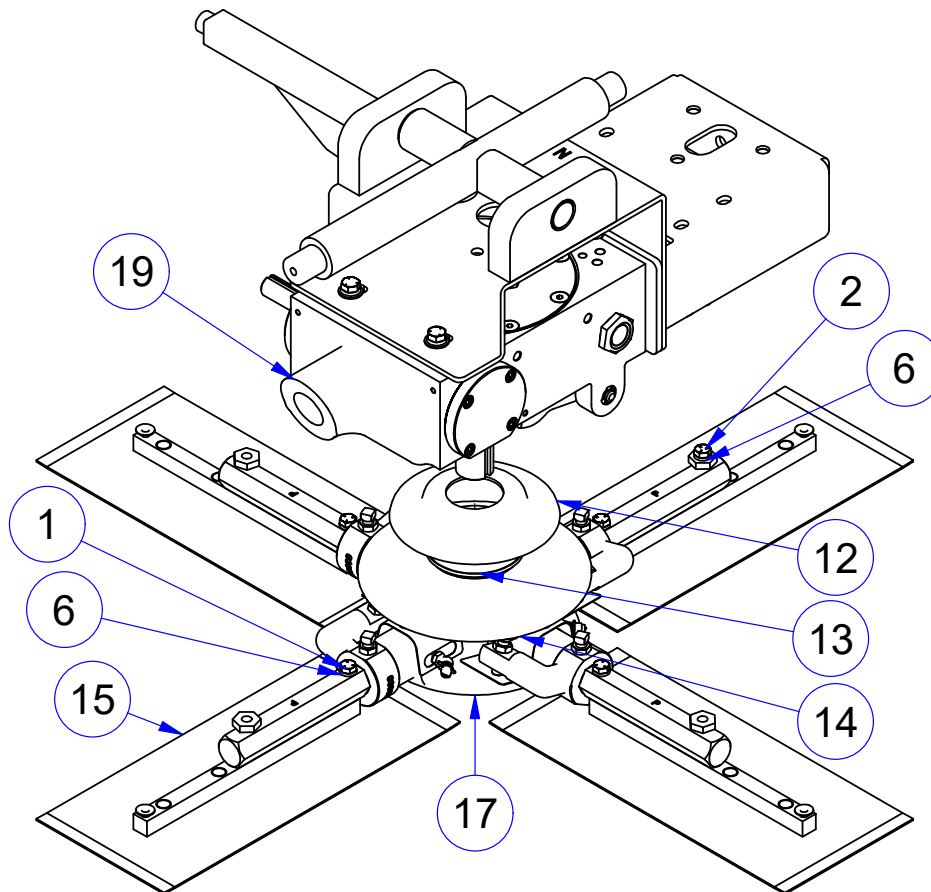
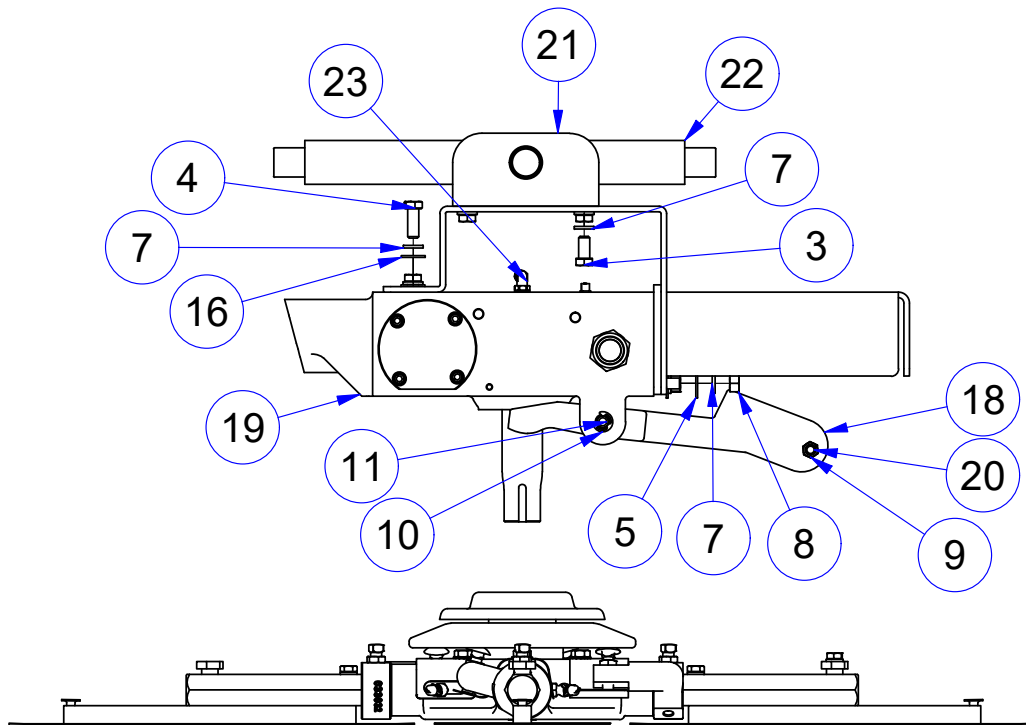
LH Rotor Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010023	FASTENER, HHCS 5/16"-18 X 1-3/4"	4
2	010024	FASTENER, HHCS 5/16"-18 X 2"	4
3	010035	FASTENER, HHCS 3/8"-16 X 3/4"	4
4	010036	FASTENER, HHCS 3/8"-16 X 1"	2
5	017751	FASTENER, FLAT WASHER 3/8"	4
6	010090	FASTENER, LOCK WASHER 5/16"	8
7	010091	FASTENER, LOCK WASHER 3/8"	10
8	010102	FASTENER, HEX NUT 3/8"-16	4
9	012612	FASTENER, NYLOCK HEX NUT 5/16"-18	1
10	015677	RETAINING RING DIA. 7/16" E-STYLE	2
11	015678	PIN, YOKE ARM	1
12	015821	PRESSURE PLATE CAP	1
13	015822	THRUST BEARING	1
14	015824	PRESSURE PLATE	1
15	041695A	TROWEL BLADE, FINISH 6" X 14" BLUE	4
16	015893	ASSEMBLY, LEFT HAND SPIDER	1
17	017751	FASTENER, FLAT WASHER 3/8"	2
18	026215	YOKE ARM	1
19	026442	LEFT HAND GEARBOX	1
20	026504	FASTENER, SHLD BOLT 3/8" X 1-1/4"	1
21	050022	CROSSHEAD, TWO WAY	1
22	074094	FITTING, 90° 4MM TUBE X 1/4"-28 SWIVAL	1

SECTION 1 PARTS

Right Hand Rotor Assembly



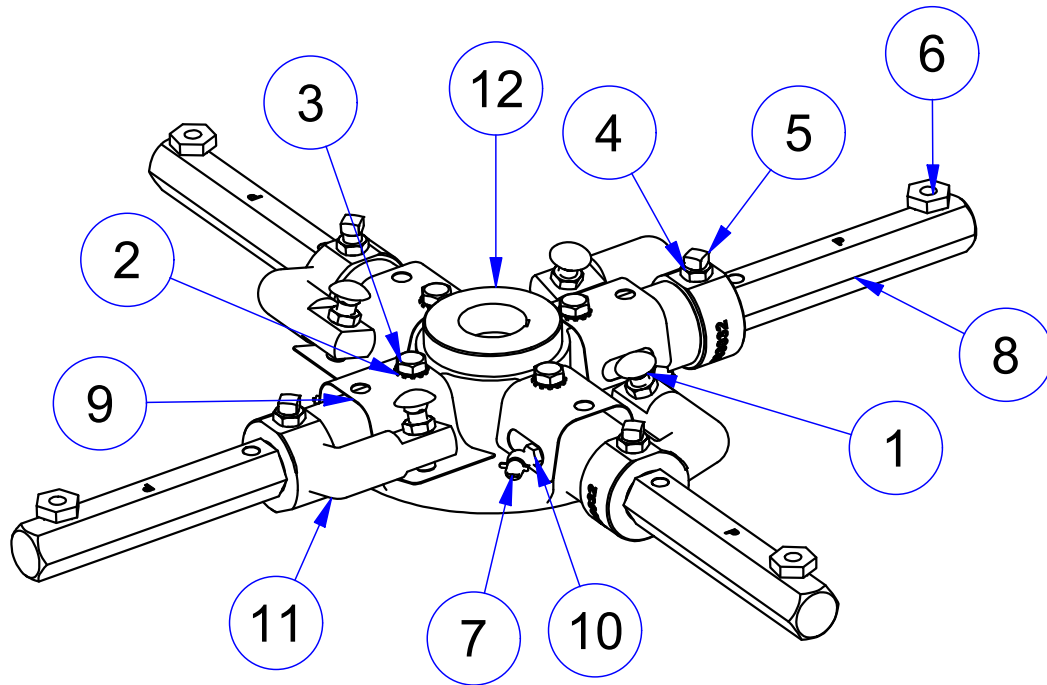
RH Rotor Assembly Parts List

SECTION 1 PARTS

ITEM	PART #	DESCRIPTION	QTY
1	010023	FASTENER, HHCS 5/16"-18 X 1-3/4",	4
2	010024	FASTENER, HHCS 5/16"-18 X 2"	4
3	010035	FASTENER, HHCS 3/8"-16 X 3/4"	4
4	010036	FASTENER, HHCS 3/8"-16 X 1"	2
5	017751	FASTENER, FLAT WASHER 3/8"	4
6	010090	FASTENER, LOCK WASHER 5/16"	8
7	010091	FASTENER, LOCK WASHER 3/8"	10
8	010102	FASTENER, HEX NUT 3/8"-16	4
9	012612	FASTENER, HEX NUT NYLOCK 5/16"-18	1
10	015677	RETAINING RING DIA. 7/16" E-STYLE	2
11	015678	PIN, YOKE ARM	1
12	015821	PRESSURE PLATE CAP	1
13	015822	THRUST BEARING	1
14	015824	PRESSURE PLATE	1
15	041695A	TROWEL BLADE, FINISH 6" X 14" BLUE	4
16	017751	FASTENER, FLAT WASHER 3/8"	2
17	024813	ASSEMBLY, RIGHT HAND SPIDER	1
18	026215	YOKE ARM	1
19	026443	RIGHT HAND GEARBOX, STANDARD	1
20	026504	SHOULDER SCREW 5/16"-18 X 1/2" X DIA. 3/8" X 1-1/4"	1
21	048561	ASSEMBLY, ROTOR MOUNT BEARINGS	2
-	048560	BEARING, FLANGED FOR ROTOR MOUNT	2
22	050020	CROSSHEAD FOUR WAY	1
23	074094	FITTING, 90° 4MM TUBE X 1/4"-28 SWIVAL	1

SECTION 1 PARTS

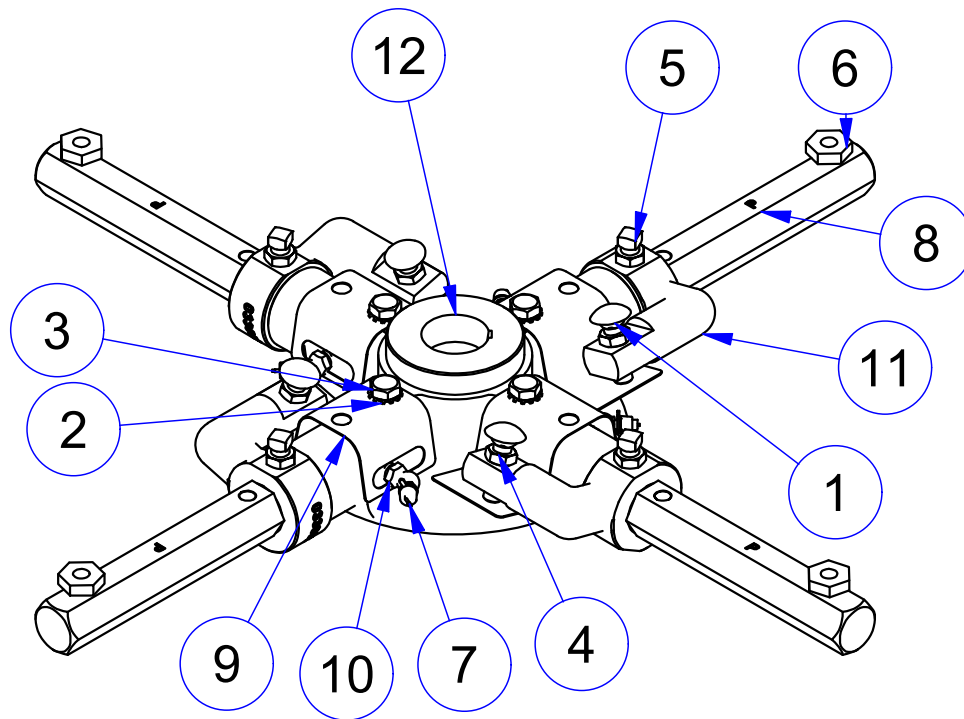
Left Hand Spider Assembly



ITEM	PART #	DESCRIPTION	QTY
1	012990	FASTENER, CABLT 3/8"-16 X 1-1/4"	4
2	015682	FASTENER, EXT STAR LOCK WASHER 3/8"	4
3	015683	FASTENER, HHCS 3/8"-16 X 7/8"	4
4	015684	FASTENER, JAM HEX NUT 3/8"-16	8
5	015686	FASTENER, SQHSS 3/8"-16 X 1"	4
6	015688	FASTENER, 9/16"-18 NF ADJ/MACH SCREW	4
7	015692	RED GREASE CAP DIA. 1/4"	4
8	069910	TROWEL ARM	4
9	016920	SPRING CLIP	4
10	024755	FITTING, GREASE 1/8"-27 45°	4
11	033032	LIFT LEVER 1"	4
12	064221P	SPIDER FOUR BOSS	1

Right Hand Spider Assembly

SECTION 1 PARTS



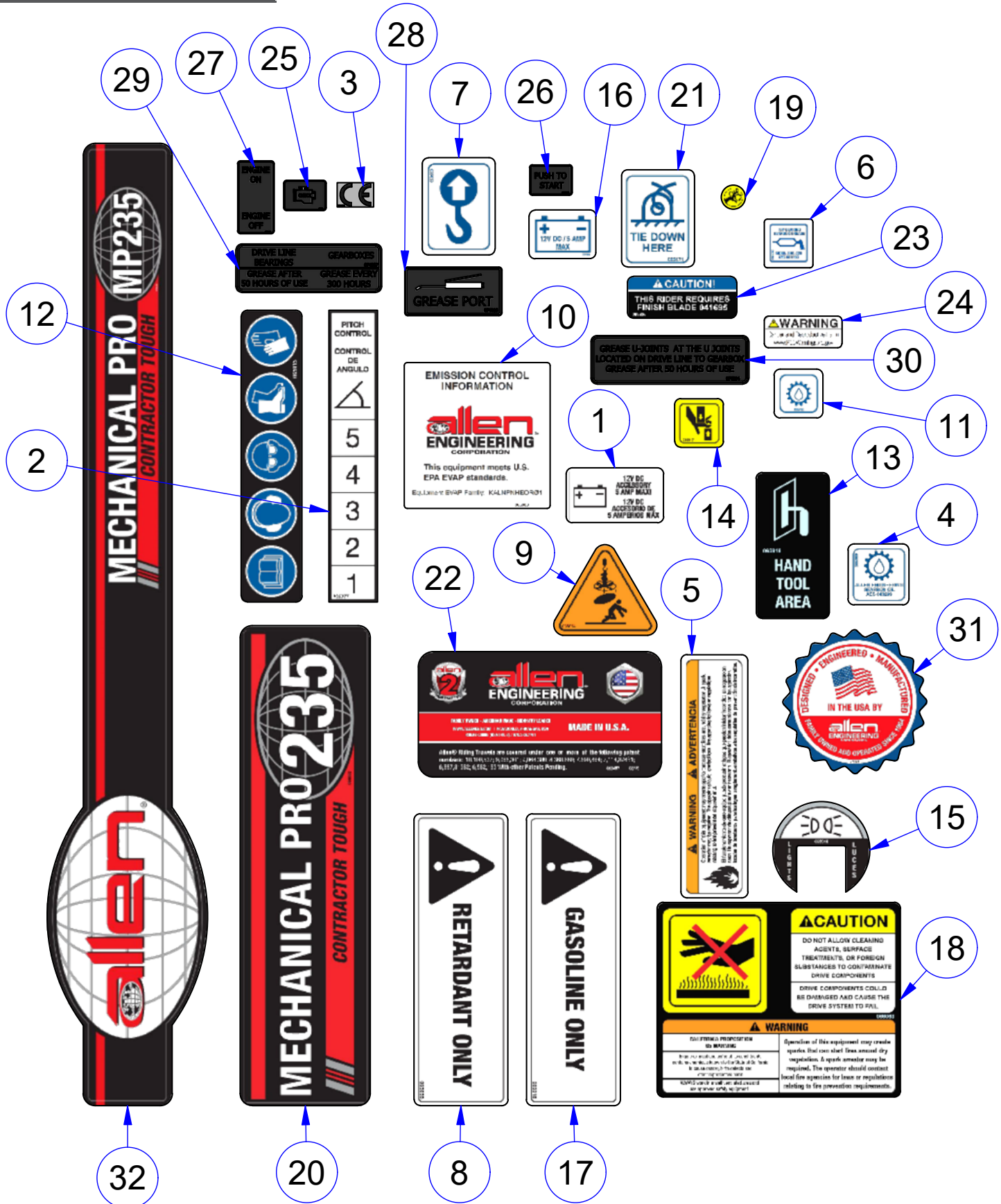
ITEM	PART #	DESCRIPTION	QTY
1	012990	FASTENER, CABLE 3/8"-16 X 1-1/4"	4
2	015682	FASTENER, EXT STAR LOCK WASHER 3/8"	4
3	015683	FASTENER, HHCS 3/8"-16 X 7/8"	4
4	015684	FASTENER, JAM HEX NUT 3/8"-16	8
5	015686	FASTENER, SQHSS 3/8"-16 X 1"	4
6	015688	FASTENER, 9/16"-18 NF ADJ/MACH SCREW	4
7	015692	RED GREASE CAP DIA. 1/4"	4
8	069910	TROWEL ARM	4
9	016920	SPRING CLIP	4
10	024755	FITTING, GREASE 1/8"-27 45°	4
11	033032	LIFT LEVER 1"	4
12	064221P	SPIDER FOUR BOSS	1

SECTION 2: DECALS

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SECTION 2 DECALS

Decals, MP235X



Decals, MP235X Parts List**SECTION 2
DECALS**

ITEM	PART #	DESCRIPTION	QTY
-	074093	KIT, MP235X DECAL	1
1	053452	12 V DC ACCESSORY 5 AMP MAX	1
2	032377	PITCH CONTROL TUBE	2
3	039893	CE MARKING	1
4	048299D	OIL, GEARBOX	1
5	053453	SPARK WARNING	1
6	065564	RIDER GEARBOX OIL	2
7	065653	LIFT HOOK	2
8	065655	RETARDANT ONLY	1
9	065656	PAN FALL	2
10	065908	EPA LABEL	1
11	065913	GEARBOX OIL	1
12	065915	PPE	1
13	065916	HAND TOOL AREA	1
14	065917	PINCH POINT	3
15	065918	LIGHTS	1
16	065919	12 V DC/5 AMP MAX	1
17	066018	GAS ONLY 7.75" X 2.5"	1
18	066063	HOT, CAUTION, WARNING	1
19	066081	PINCH POINT	10
20	066082	MP235 10" X 3"	2
21	066171	TIE DOWN ONLY	4
22	068457	PATENT PLACARD 6.5" X 3.5"	1
23	068836	REQUIRED FINISH BLADE 041695	2
24	069225	PROPOSITION 65	1
25	072966	CHECK ENGINE LIGHT	1
26	074011	PUSH TO START	1
27	074012	ENGINE ON/OFF	1
28	071086	GREASE PORT	1
29	074087	DRIVELINE BEARING GREASE & GEARBOXES	1
30	074284	GREASING OF U-JOINTS	1
31	075279	MADE IN AMERICA	1
32	075441	MP235 FRONT SCREEN	1

Revision Detail

MANUAL REVISION DETAIL

REVISION #	REVISION DATE	REVISION REFERENCE #	REVISION BY
	12/21	Initial Release	MK
A	01/22	Updated Covers	MK

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U.S. Design Patents: 344,736; 400,542; 400,544; 402,998; 402,999; 403,332; 404,041; 404,042; 410,931; 413,127; 416,564; 465,897; 466,909; 474,203.

U.S. Utility Patents: 5,108,220; 5,238,323; 5,328,295; 5,352,063; 5,405,216; 5,476,342; 5,480,257; 5,480,258; 5,533,831; 5,562,361; 5,567,075; 5,613,801; 5,658,089; 5,685,667; 5,803,658; 5,816,739; 5,816,740; 5,890,833; 5,934,823; 5,967,696; 5,988,938; 5,988,939; 6,019,433; 6,019,545; 6,048,130; 6,053,660; 6,089,786; 6,106,193; 6,857,815; 5,288,166; 6,582,153 B1, 7,108,449; 7,114,876; 7,316,523; 7,690,864 B2

Canadian Patents: 2,039,893.

With other Patents Pending.

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